

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/032,075	12/31/2001	Robert A. Boudrie	P 283212 EMC-01-185	5623
51576 EMC CORPOR	7590 01/16/2007 RATION	EXAMINER .		
c/o DALY, CROWLEY, MOFFORD & DURKEE, LLP 354ATURNPIKE STREET SUITE 301A CANTON, MA 02021-2714			ROBINSON, GRETA LEE	
			ART UNIT	PAPER NUMBER
			2168	
	·			
			MAIL DATE	DELIVERY MODE
			01/16/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
Supplemental	10/000 075	DOUDDIE ET AL	
Notice of Allowability	10/032,075 Examiner	BOUDRIE ET AL. Art Unit	
·	Greta L. Robinson	2168	
The MAILING DATE of this communication of All claims being allowable, PROSECUTION ON THE MERIT herewith (or previously mailed), a Notice of Allowance (PTOL NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATEN of the Office or upon petition by the applicant. See 37 CFR 1	appears on the cover sheet with a S IS (OR REMAINS) CLOSED in th -85) or other appropriate communic IT RIGHTS. This application is sub	the correspondence add is application. If not inclu- cation will be mailed in du	ded e course. THIS
1. This communication is responsive to <u>08/09/2006</u> .			
2. The allowed claim(s) is/are <u>1-13</u> .			
 Acknowledgment is made of a claim for foreign priori a) All b) Some* c) None of the: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priorit International Bureau (PCT Rule 17.2(a)). 	have been received. have been received in Application N	No	cation from the
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DA noted below. Failure to timely comply will result in ABAND THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the r	requirements
4. A SUBSTITUTE OATH OR DECLARATION must be s INFORMAL PATENT APPLICATION (PTO-152) which			NOTICE OF
5. CORRECTED DRAWINGS (as "replacement sheets")	must be submitted.		
(a) \square including changes required by the Notice of Drafts	sperson's Patent Drawing Review (PTO-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date _	 .		
(b) including changes required by the attached Exam Paper No./Mail Date	iner's Amendment / Comment or in	the Office action of	
Identifying indicia such as the application number (see 37 C each sheet. Replacement sheet(s) should be labeled as such			he back) of
 DEPOSIT OF and/or INFORMATION about the d attached Examiner's comment regarding REQUIREME 			. Note the
Attachment(s)			
1. Notice of References Cited (PTO-892)		mal Patent Application	
Notice of Draftperson's Patent Drawing Review (PTO-9	48) 6. 🛛 Interview Sum	mary (P1O-413),	

5. Notice of Informal Patent Application
6. ☑ Interview Summary (PTO-413),
Paper No./Mail Date <u>20070104</u> . 7. ⊠ Examiner's Amendment/Comment
8. Examiner's Statement of Reasons for Allowance
9. Other

PARAMAN EXAMINER

3. Information Disclosure Statements (PTO/SB/08),

Paper No./Mail Date ______

4. Examiner's Comment Regarding Requirement for Deposit of Biological Material

Application/Control Number: 10/032,075

Art Unit: 2168

EXAMINER'S AMENDMENT

Page 2

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Paul D. Durkee (registration no.41,003) on January 4, 2007.

2. The application has been amended as follows:

Claims 6 and 10 have been amended as follows:

6. (Currently Amended) A system for incrementally backing up data from a logically represented volume on disk media, accessible by a client through a network connection, the client comprising an enterprise database application, said system comprising:

a track identifier to identify tracks of logically represented volume that have changed since a last incremental backup operation by reading fresh data indications, (i) wherein each of the fresh data indications corresponds to a track of the logically represented volume and (ii) wherein a given fresh data indication is indicative of whether its corresponding track has been changed since a last incremental backup operation;

Application/Control Number: 10/032,075

Art Unit: 2168

a file identifier to identify files for incremental backup, the identified files comprising changed and unchanged blocks saved on a track deemed changed since a last incremental backup operation; and

a backup mechanism <u>utilizing a processor</u> to incrementally backup the identified files from the disk media to sequential storage media through a high speed connection.

10. (Currently Amended) A machine-readable media for incrementally backing up data from a logically represented volume on disk media, accessible by a client through a network connection, the client comprising an enterprise database application, the machine-readable media having stored therein computer executable instructions for the computer-readable media being encoded so that, when the machine-readable media is read by a computer the machine-readable media causes:

identifying tracks of the logically represented volume that have changed since a last incremental backup operation by reading fresh data indications, (i) wherein each of the fresh data indications corresponds to a track of the logically represented volume and (ii) wherein a given fresh data indication is indicative of whether its corresponding track has changed since a last incremental backup operation;

identifying files for incremental backup, the identified files comprising blocks saved on a track deemed changed since a last incremental backup operation; and

backing up the identified files from the disk media to sequential storage media through a high speed connection.

3. The following is an examiner's statement of reasons for allowance:

The reasons for allowance stands as outlined in the notice of allowance mailed October 12, 2006.

Page 4

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Greta L. Robinson whose telephone number is (571)272-4118. The examiner can normally be reached on M-F 9:30AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tim T. Vo can be reached on (571)272-3642. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/032,075

Art Unit: 2168

Page 5

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Greta Robinson
Primary Examiner

January 4, 2006